

AE Order Number Banner

Report Description

This report shows an AE Order Number in Barcode format for purposes of scanning. The Barcode format is Code 39.



App Number: pVF1623628119

3RF - 13651

CONOCOPHILLIPS COMPANY

8/23/2016

District I 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 8, 2011

Submit 1 Copy to appropriate District Office to accordance with 19.15.29 NMAC.

			Rele	ease Notific		and Co		ction					
						OPERA	FOR		Initia	al Report	\boxtimes	Final Repor	
Name of C	ompany C	onocoPhillip	os Co.			Contact Lis	a Hunter						
		th St, Farmin		[Telephone N	No.(505)-258-10	607	1				
Facility Na	me: San Ju	an 30-6 CTI	3				e: Tank Battery						
Surface Ow	mer: Fede	ral		Mineral C)wner:	N/A		A	API No	. N/A			
52	A. W.	Sec. 1	<u>.</u>	LOCA	TIO	OF REI	EASE						
Unit Letter	Section	Township	Range	Feet from the	-	South Line	Feet from the	East/West	t Line	County			
М	22	30N	6W	N/A		N/A	N/A	N/A	6	Rio Arril	Da		
						; Longitude OF REL	e: -107.45599 EASE					*	
Type of Rela	ease Histo	ric Contamina	tion		Und		Release Unkno	own Vo	olume F	Recovered	462 yd	S	
Source of Re		1					lour of Occurrent			Hour of Dis	scovery		
Above Grad					_	Unknown		Au	ugust 2	1, 2015			
Was Immediate Notice Given?					equired	If YES, To N/A	Whom?						
By Whom?	N/A					Date and H	lour						
Was a Water	course Read					If YES, Vo	lume Impacting	the Waterco	urse.				
🗌 Yes 🖾 No						N/A							
If a Waterco N/A	urse was Im	pacted, Descr	ibe Fully.*					OIL CO	DNS. D	DIV DIST	3		
								A.I.	01/ 1	8 2015			
Describe Are Historical hy yds of soil w	ea Affected drocarbon i as transport	ed to IEI land	Action Tak was found farm and		soil from	an approved	source was place	ed in the exc					
regulations a public health should their or the enviro	Il operators or the envi operations h nment. In a	are required t ronment. The ave failed to a	o report ar acceptance adequately OCD accept	is true and comp id/or file certain re- e of a C-141 repo investigate and re- tance of a C-141	elease nort by the emediate	e NMOCD m contaminati	nd perform correct arked as "Final R on that pose a thr e the operator of	ctive actions eport" does reat to groun responsibilit	for rele not reli d water ty for co	eases which ieve the ope r, surface wa ompliance v	may en rator of ater, hu with any	ndanger f liability man health	
Signature:	fr	her HA	-			Approved by	OIL CON	_	<u>FION</u>	DIVISIO	<u>DN</u>		
Printed Nam	e: Lisa Hu	nter					Jal	Cer	-	>	(i -		
Title: Field	Environme	ntal Specialis	st			Approval Dat	e: 12/17/2	S Expi	iration l	Date:			
E-mail Addr	ess: Lisa.Hu	inter@cop.co	om	_	-	Conditions of			Attached				
Date: 11/18/2	2015		Phone:	(505) 258-1607		NVFI	63667	003					

* Attach Additional Sheets If Necessary

Animas Environmental Services, LLC



OIL CONS. DIV DIST. 3

NOV 1 8 2015

October 29, 2015

Lisa Hunter ConocoPhillips San Juan Business Unit (505) 326-9786

Via electronic mail to: <u>SJBUE-Team@ConocoPhillips.com</u>

RE: Release Assessment and Final Excavation Report San Juan 30-6 CTB3 Rio Arriba County, New Mexico

Dear Ms. Hunter:

On August 24 and 27, 2015, Animas Environmental Services, LLC (AES) completed an initial release assessment and environmental clearance of the final excavation limits at the ConocoPhillips (COPC) San Juan 30-6 CTB3, located in Rio Arriba County, New Mexico. Historic contamination was discovered during facility decommissioning. The initial release assessment was completed by AES on August 24, 2015, and the final excavation was completed by COPC contractors on August 27, 2015, while AES was at the location.

1.0 Site Information

1.1 Location

Site Name – San Juan 30-6 CTB3 Location – SW¼ SW¼, Section 22, T30N, R6W, Rio Arriba County, New Mexico BGT Latitude/Longitude – N36.79419 and W107.45610, respectively Release Location Latitude/Longitude – N36.79427 and W107.45599, respectively Land Jurisdiction – Bureau of Land Management (BLM) Figure 1. Topographic Site Location Map Figure 2. Aerial Site Map, August 2015

604 W. Piñon St. Farmington, NM 87401 505-564-2281

> 1911 Main, Ste 280 Durango, CO 81301 970-403-3084

www.animasenvironmental.com

1.2 NMOCD Ranking

In accordance with New Mexico Oil Conservation Division (NMOCD) release protocols, action levels were established per NMOCD *Guidelines for Remediation of Leaks, Spills, and Releases* (August 1993) prior to site work. The release was given a ranking score of 30 based on the following factors:

- Depth to Groundwater: A Cathodic Report form dated May 1991 reported the depth to groundwater at 90 feet below ground surface (bgs). (10 points)
- Wellhead Protection Area: The release location is not within a wellhead protection area. (0 points)
- Distance to Surface Water Body: An unnamed wash which discharges to Francis Creek is located approximately 170 feet south of the location. (20 points)

1.3 Assessment

AES was initially contacted by Lisa Hunter of COPC on August 21, 2015, and on August 24, 2015, Stephanie Hinds of AES completed the release assessment field work. The assessment included collection and field sampling of 15 soil samples from 9 test holes in and around the release area. Test holes were terminated between 5 and 8 feet below grade. Based on field sampling results, AES recommended excavation of the release area. Sample locations are shown on Figure 3.

On August 27, 2015, AES returned to the location to collect confirmation soil samples of the excavation. The field sampling activities included collection of nine confirmation soil samples (SC-1 through SC-9) from the walls and base of the excavation. The area of the final excavation measured approximately 49 feet by 51 feet by 3 to 7 feet in depth. Sample locations and final excavation extents are presented on Figure 4.

2.0 Soil Sampling

A total of 15 soil samples from 9 test holes (TH-1 through TH-9) and 9 composite samples (SC-1 through SC-9) were collected during the assessments. All soil samples were field screened for volatile organic compounds (VOCs), and selected samples were analyzed for total petroleum hydrocarbons (TPH). Nine composite samples (SC-1 through SC-9) collected during the excavation clearance were also submitted for confirmation laboratory analysis.

2.1 Field Sampling

2.1.1 Volatile Organic Compounds

Field screening for VOC vapors was conducted with a photo-ionization detector (PID) organic vapor meter (OVM). Before beginning field screening, the PID-OVM was first calibrated with 100 parts per million (ppm) isobutylene gas.

2.1.2 Total Petroleum Hydrocarbons

Field TPH samples were analyzed per U.S. Environmental Protection Agency (USEPA) Method 418.1 using a Buck Scientific Model HC-404 Total Hydrocarbon Analyzer Infrared Spectrometer (Buck). A 3-point calibration was completed prior to conducting soil analyses. Field analytical protocol followed AES's Standard Operating Procedure: Field Analysis Total Petroleum Hydrocarbons per EPA Method 418.1.

2.2 Laboratory Analyses

The soil samples collected for laboratory analysis were placed into new, clean, laboratorysupplied containers, which were then labeled, placed on ice, and logged onto a sample chain of custody record. Samples were maintained on ice until delivery to the analytical laboratory, Hall Environmental Analysis Laboratory (Hall) in Albuquerque, New Mexico. All soil samples were laboratory analyzed for:

- Benzene, toluene, ethylbenzene, and xylene (BTEX) per USEPA Method 8021B; and
- TPH for gasoline range organics (GRO), diesel range organics (DRO), and motor oil range organics (MRO) per USEPA Method 8015D.

2.3 Field and Laboratory Analytical Results

On August 24, 2015, initial assessment field screening results for VOCs via OVM showed concentrations ranging from 0.0 ppm in TH-3, TH-4, TH-8 and TH-9 up to 22.8 ppm in TH-1. Field TPH concentrations ranged from less than 20.0 mg/kg in TH-3 and TH-7 up to greater than 2,500 mg/kg in TH-1.

On August 27, 2015, final excavation field screening results for VOCs via OVM ranged from 65.9 ppm in SC-8 up to 385 ppm in SC-4. Field TPH concentrations ranged from 26.8 mg/kg in SC-3 up to 111 mg/kg in SC-5. Results are included below in Table 1 and on Figures 3 and 4. The AES Field Sampling Reports are attached.

Sample ID	Date Sampled	Sample Depth (ft bgs)	VOCs via OVM (ppm)	TPH 418.1 (mg/kg)
NMOCD	Action Level*		100	
711.4	0/24/45	2	22.8	>2,500
TH-1	8/24/15 -	6	0.2	24.9
711.2	0/24/15	2	1.2	NA
TH-2	8/24/15 -	6	0.2	37.1
711.2	0/24/45	2	0.0	NA
TH-3	8/24/15 -	6	1.3	<20.0
711.4	0/24/15	2	6.2	186
TH-4	8/24/15 -	6	0.0	33.0
	0/24/45	5	0.8	283
TH-5	8/24/15 -	8	0.8	54.6
TH-6	8/24/15	8	0.1	29.0
	0/24/45	2	5.9	<20.0
TH-7	8/24/15 -	6	0.1	43.8
TH-8	8/24/15	5	0.0	33.0
TH-9	8/24/15	5	0.0	23.6
SC-1	8/27/15	7	332	43.7
SC-2	8/27/15	5	231	30.2
SC-3	8/27/15	0 to 5	152	26.8
SC-4	8/27/15	0 to 3	385	50.5
SC-5	8/27/15	0 to 5	220	111
SC-6	8/27/15	5	145	60.0
SC-7	8/27/15	0 to 7	110	31.4
SC-8	8/27/15	8	66	43.0
SC-9	8/27/15	3	284	29.7

Table 1. Soil Field VOCs and TPH Results

San Juan 30-6 CTB3 Initial Release Assessment and Final Excavation

NA - not analyzed

*Action level determined by the NMOCD ranking score per NMOCD Guidelines for Remediation of Leaks, Spills, and Releases (August 1993)

Laboratory analyses for SC-1 through SC-9 were used to confirm field sampling results from the final excavation. Benzene and total BTEX concentrations in SC-1 through SC-9 were reported below laboratory detection limits of 0.049 mg/kg and 0.245 mg/kg, respectively. TPH concentrations as GRO/DRO in SC-1 through SC-9 were reported below the laboratory detection limits. Results are presented in Table 2 and on Figure 4. The laboratory analytical report is attached.

		Aug	gust 2015			
Sample ID	Date Sampled	Sample Depth (ft bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	GRO (mg/kg)	DRO (mg/kg)
NMOC	D Action Leve	2/*	10	50	10	00
SC-1	8/27/15	7	<0.048	<0.241	<4.8	<10
SC-2	8/27/15	5	<0.049	<0.245	<4.9	<10
SC-3	8/27/15	0 to 5	<0.049	<0.245	<4.9	<10
SC-4	8/27/15	0 to 3	<0.049	<0.245	<4.9	<9.9
SC-5	8/27/15	0 to 5	<0.047	<0.235	<4.7	<9.9
SC-6	8/27/15	5	<0.048	<0.241	<4.8	<10
SC-7	8/27/15	0 to 7	<0.048	<0.241	<4.8	<10
SC-8	8/27/15	5	<0.049	<0.244	<4.9	<9.6
SC-9	8/27/15	3	<0.046	<0.23	<4.6	<10

Table 2. Laboratory Analytical Results – Benzene, Total BTEX, and TPH San Juan 30-6 CTB3 Initial Release Assessment and Final Excavation

*Action level determined by the NMOCD ranking score per NMOCD Guidelines for Remediation of Leaks, Spills, and Releases (August 1993)

3.0 Conclusions and Recommendations

On August 24, 2015, AES conducted an initial assessment of petroleum contaminated soils associated with historic contamination discovered at the San Juan 30-6 CTB3. Action levels for releases are determined by the NMOCD ranking score per *NMOCD Guidelines for Remediation of Leaks, Spills, and Releases* (August 1993), and the site was assigned a rank of 30.

Initial assessment field sampling results above the NMOCD action level of 100 ppm VOCs and 100 mg/kg TPH were reported in TH-1, TH-4 and TH-5. The highest VOC and TPH concentrations were reported in TH-1 with 22.8 ppm and 2,500 mg/kg, respectively.

On August 27, 2015, final excavation of the impacted area was completed. Field sampling results of the excavation extents showed that VOC concentrations were above applicable NMOCD action levels for the final walls and base of the excavation, except for SC-8 (north wall) which had a VOC concentration of 65.9 ppm. Field TPH concentrations were below the applicable NMOCD action level of 100 mg/kg for the final walls and base of the excavation, with the exception of SC-5 (south wall) which had a TPH concentration of 111 mg/kg. However, laboratory analytical results reported benzene, total BTEX, and TPH concentrations as GRO/DRO below the applicable NMOCD action level of 200 mg/kg NMOCD action level in SC-1 through SC-9.

Based on final field sampling and laboratory analytical results of the excavation of petroleum contaminated soils at the San Juan 30-6 CTB3, benzene, total BTEX, and TPH concentrations were below applicable NMOCD action levels for each of the sidewalls and base of the excavation. No further work is recommended.

If you have any questions about this report or site conditions, please do not hesitate to contact Emilee Skyles at (505) 564-2281.

Sincerely,

Delilah J. Dongi

Delilah T. Dougi Environmental Technician

Sinh ShL

Emilee Skyles Geologist/Project Lead

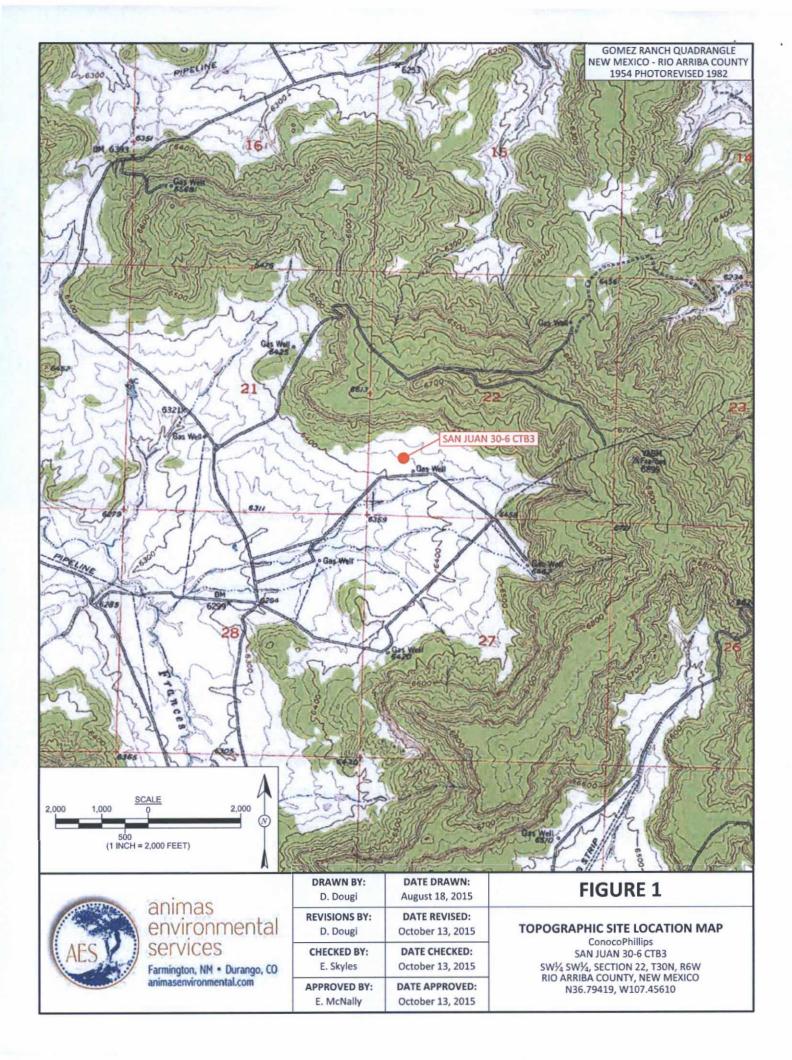
Elizabeth & Mendly

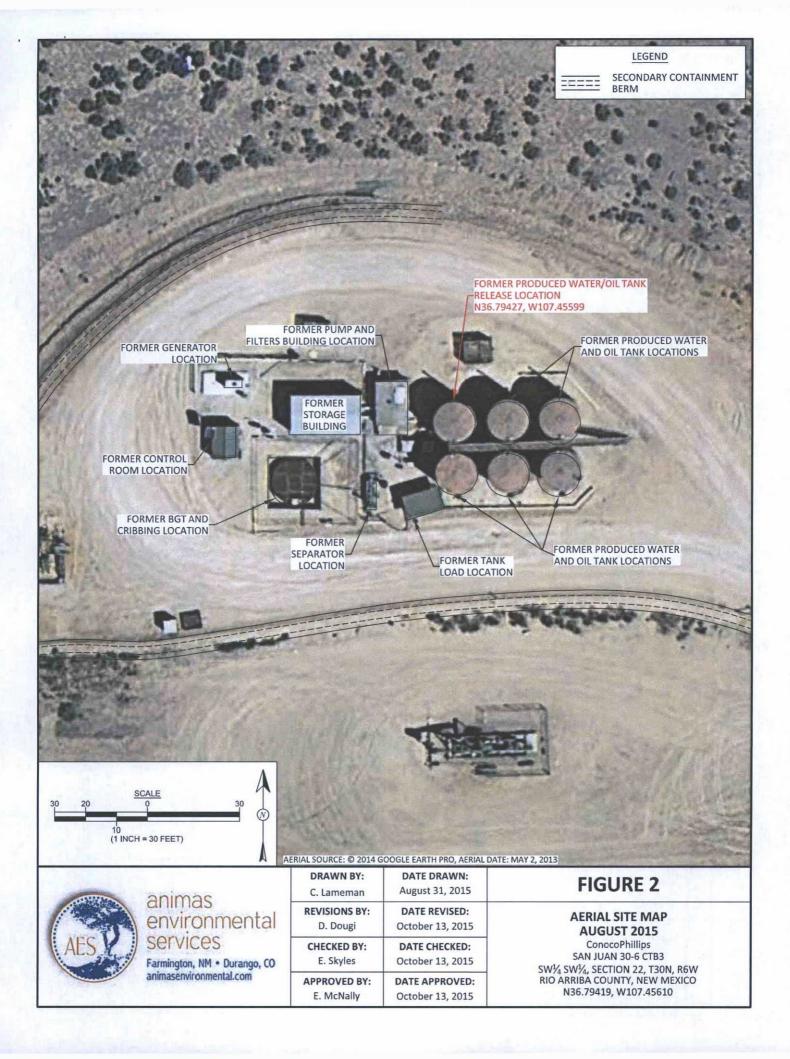
Elizabeth McNally, PE

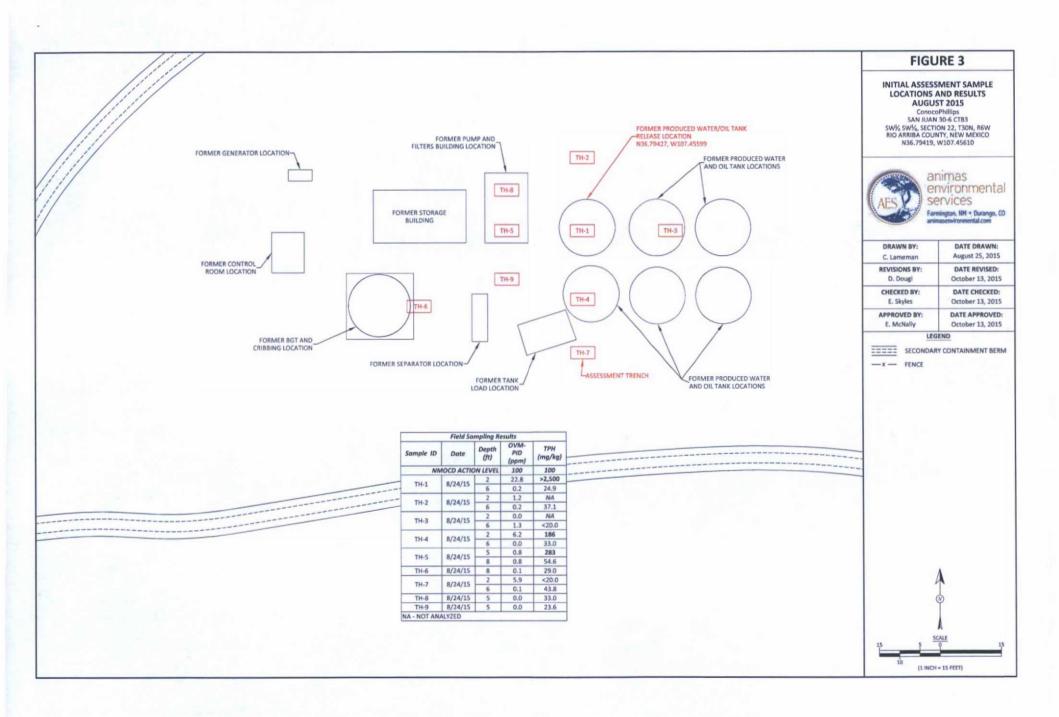
Attachments:

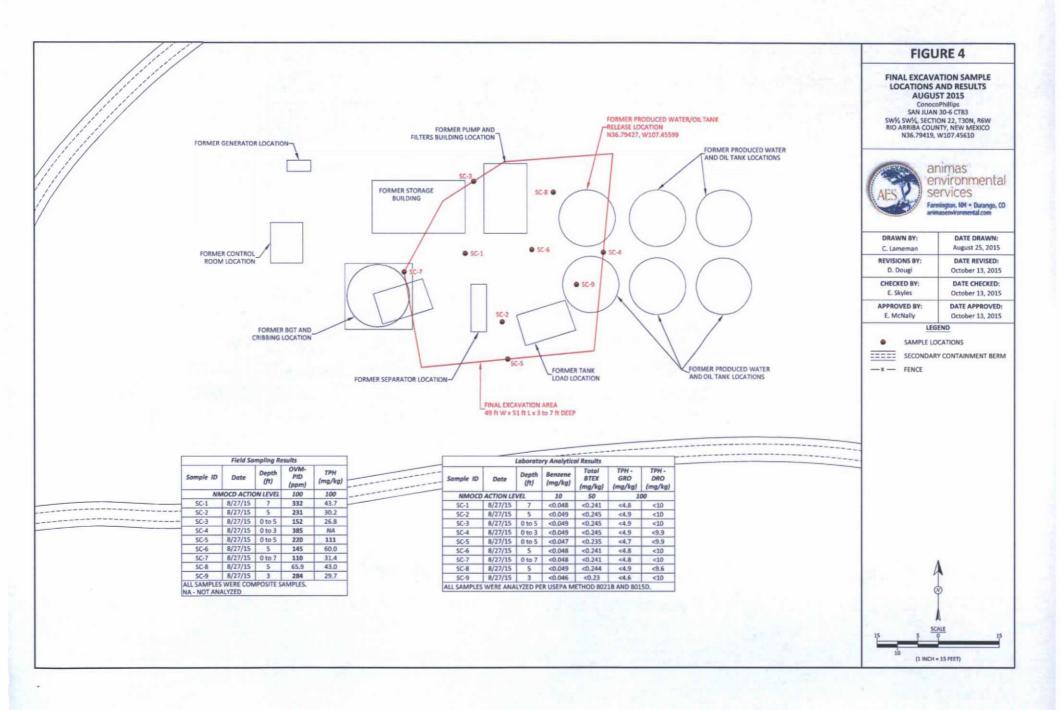
- Figure 1. Topographic Site Location Map
- Figure 2. Aerial Site Map, August 2015
- Figure 3. Initial Assessment Sample Locations and Results, August 2015
- Figure 4. Final Excavation Sample Locations and Results, August 2015
- AES Field Sampling Report 082415
- AES Field Sampling Report 082715
- Hall Laboratory Analytical Report 1509012

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AES Field Sampling Report

Animas Environmental Services, LLC



Client: ConocoPhillips

Project Location: San Juan 30-6 CTB3

Date: 8/24/2015

Matrix: Soil

Sample ID	Collection Date	Collection Time	OVM (ppm)	Field TPH* (mg/kg)	Field TPH Analysis Time	TPH PQL (mg/kg)	DF	TPH Analysts Initials			
TH-1 @ 2'	8/24/2015	10:55	22.8	>2,500	11:17	20.0	1	SH			
TH-1@6'	8/24/2015	10:59	0.2	24.9	11:20	20.0	1	SH			
TH-2 @ 2'	8/24/2015	11:29	1.2	Not Analyzed for TPH							
TH-2 @ 6'	8/24/2015	11:36	0.2	37.1**	10:26	20.0	1	SH			
TH-3 @ 2'	8/24/2015	11:40	0.0	Not Analyzed for TPH							
TH-3 @ 6'	8/24/2015	11:48	1.3	< 20.0	10:32	20.0	1	SH			
TH-4 @ 2'	8/24/2015	11:55	6.2	186**	10:39	20.0	1	SH			
TH-4 @ 6'	8/24/2015	11:59	0.0	33.0**	11:04	20.0	1	SH			
TH-5 @ 5'	8/24/2015	12:15	0.8	283	16:59	20.0	1	SH			
TH-5 @ 8'	8/24/2015	15:52	0.8	54.6	16:37	20.0	1	SH			
TH-6 @ 8'	8/24/2015	12:22	0.1	29.0	17:02	20.0	1	SH			
TH-7 @ 2'	8/24/2015	15:59	5.9	< 20.0	16:41	20.0	1	SH			
TH-7@6'	8/24/2015	16:10	0.1	43.8	17:55	20.0	1	SH			

Sample ID	Collection Date	Collection Time	OVM (ppm)	Field TPH* (mg/kg)	Field TPH Analysis Time	TPH PQL (mg/kg)	DF	TPH Analysts Initials
TH-8 @ 5'	8/24/2015	17:15	0.0	33.0	17:45	20.0	1	SH
TH-9 @ 5'	8/24/2015	17:24	0.0	23.6	17:48	20.0	1	SH

DF Dilution Factor

NA Not Analyzed

PQL Practical Quantitation Limit

*Field TPH concentrations recorded may be below PQL.

**Samples were analyzed on 8/25/15.

Total Petroleum Hydrocarbons - USEPA 418.1

Analyst: Alyphanie A. Hinds

AES Field Sampling Report

Animas Environmental Services, LLC



Client: ConocoPhillips

Project Location: San Juan 30-6 CTB3

Date: 8/27/2015

Matrix: Soil

Sample ID	Collection Date	Collection Time	Sample Location	OVM (ppm)	Field TPH* (mg/kg)	Field TPH Analysis Time	TPH PQL (mg/kg)	DF	TPH Analysts Initials
SC-1	8/27/2015	15:30	West Base	332	43.7	16:13	20.0	1	SG
SC-2	8/27/2015	15:38	South Base	231	30.2	16:18	20.0	1	SG
SC-3	8/27/2015	16:20	North Wall	152	26.8	21:23	20.0	1	SG
SC-4	8/27/2015	16:00	East Wall	385	50.5	21:25	20.0	1	SG
SC-5	8/27/2015	16:08	South Wall	220	111	21:28	20.0	1	SG
SC-6	8/27/2015	16:30	Center Base	145	60.0	21:32	20.0	1	SG
SC-7	8/27/2015	16:39	West Wall	110	31.4	21:33	20.0	1	SG
SC-8	8/27/2015	16:45	North Base	66	43.0	21:36	20.0	1	SG
SC-9	8/27/2015	16:15	East Base	284	29.7	21:39	20.0	1	SG

DF Dilution Factor

NA Not Analyzed

PQL Practical Quantitation Limit

*TPH concentrations recorded may be below PQL.

Total Petroleum Hydrocarbons - USEPA 418.1

Analyst: Ann H Dersen fr.



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

September 04, 2015

Emilee Skyles Animas Environmental 604 Pinon Street Farmington, NM 87401 TEL: (505) 564-2281 FAX

RE: COPC SJ 30-6 CTB3

OrderNo.: 1509012

Dear Emilee Skyles:

Hall Environmental Analysis Laboratory received 9 sample(s) on 9/1/2015 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <u>www.hallenvironmental.com</u> or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Analytical Report Lab Order 1509012

Date Reported: 9/4/2015

Hall Environmental Analysis Laboratory, Inc.

 CLIENT: Animas Environmental
 Client Sample ID: SC-1

 Project:
 COPC SJ 30-6 CTB3

 Lab ID:
 1509012-001

 Matrix:
 SOIL

 Result
 RL Qual Units

 DF Date Analyzed
 Batch

EPA METHOD 8015M/D: DIESEL RAN	IGE ORGANIC	S			Analyst:	TOM
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	9/2/2015 9:14:14 PM	21068
Surr: DNOP	109	57.9-140	%REC	1	9/2/2015 9:14:14 PM	21068
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst:	NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	9/2/2015 2:03:09 PM	21089
Surr: BFB	86.4	75.4-113	%REC	1	9/2/2015 2:03:09 PM	21089
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	ND	0.048	mg/Kg	1	9/2/2015 2:03:09 PM	21089
Toluene	ND	0.048	mg/Kg	1	9/2/2015 2:03:09 PM	21089
Ethylbenzene	ND	0.048	mg/Kg	1	9/2/2015 2:03:09 PM	21089
Xylenes, Total	ND	0.097	mg/Kg	1	9/2/2015 2:03:09 PM	21089
Surr: 4-Bromofluorobenzene	99.1	80-120	%REC	1	9/2/2015 2:03:09 PM	21089

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 1 of 14
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order 1509012

Date Reported: 9/4/2015

	HOD 8015M/D: DIESEL RAI	NGE ORGANICS				Analy	st: TOM			
Analyses		Result	RL	Qual	Units	DF Date Analyzed	Batch			
Lab ID:	1509012-002	Matrix: SOIL			Received Date: 9/1/2015 8:05:00 AM					
Project:	COPC SJ 30-6 CTB3				Collection	Date: 8/27/2015 3:38:00 PM				
CLIENT:	Animas Environmental		Client Sample ID: SC-2							

EPA METHOD 8015M/D: DIESEL RANGI	E ORGANIC	S			Analyst	TOM
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	9/2/2015 9:41:51 PM	21068
Surr: DNOP	99.0	57.9-140	%REC	1	9/2/2015 9:41:51 PM	21068
EPA METHOD 8015D: GASOLINE RANG	E				Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	9/2/2015 3:19:21 PM	21089
Surr: BFB	86.4	75.4-113	%REC	1	9/2/2015 3:19:21 PM	21089
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.049	mg/Kg	1	9/2/2015 3:19:21 PM	21089
Toluene	ND	0.049	mg/Kg	1	9/2/2015 3:19:21 PM	21089
Ethylbenzene	ND	0.049	mg/Kg	1	9/2/2015 3:19:21 PM	21089
Xylenes, Total	ND	0.098	mg/Kg	1	9/2/2015 3:19:21 PM	21089
Surr: 4-Bromofluorobenzene	99.5	80-120	%REC	1	9/2/2015 3:19:21 PM	21089

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
Quantition	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 2 of 14
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report Lab Order 1509012 Date Reported: 9/4/2015

Hall Environmental Analysis Laboratory, Inc.

 CLIENT: Animas Environmental
 Client Sample ID: SC-3

 Project:
 COPC SJ 30-6 CTB3

 Lab ID:
 1509012-003

 Matrix:
 SOIL

 Result
 RL Qual Units

 DF Date Analyzed
 Batch

EPA METHOD 8015M/D: DIESEL RANGE	ORGANIC	S			Analyst:	TOM
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	9/2/2015 10:09:35 PM	21068
Surr: DNOP	98.4	57.9-140	%REC	1	9/2/2015 10:09:35 PM	21068
EPA METHOD 8015D: GASOLINE RANGE					Analyst:	NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	9/2/2015 4:35:28 PM	21089
Surr: BFB	92.1	75.4-113	%REC	1	9/2/2015 4:35:28 PM	21089
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	ND	0.049	mg/Kg	1	9/2/2015 4:35:28 PM	21089
Toluene	ND	0.049	mg/Kg	1	9/2/2015 4:35:28 PM	21089
Ethylbenzene	ND	0.049	mg/Kg	1	9/2/2015 4:35:28 PM	21089
Xylenes, Total	ND	0.098	mg/Kg	1	9/2/2015 4:35:28 PM	21089
Surr: 4-Bromofluorobenzene	108	80-120	%REC	1	9/2/2015 4:35:28 PM	21089

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	Е	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 3 of 14
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report Lab Order 1509012

Date Reported: 9/4/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental			Client Sampl	e ID: SC	2-4	
Project: COPC SJ 30-6 CTB3			Collection	Date: 8/2	27/2015 4:00:00 PM	
Lab ID: 1509012-004	Matrix:	SOIL	Received 1	Date: 9/1	/2015 8:05:00 AM	
Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RAN	IGE ORGANIC	s			Analys	t: TOM
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	9/2/2015 10:37:26 PM	21068
Surr: DNOP	101	57.9-140	%REC	1	9/2/2015 10:37:26 PM	21068
EPA METHOD 8015D: GASOLINE RA	NGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	9/2/2015 5:00:46 PM	21089
Surr: BFB	90.9	75.4-113	%REC	1	9/2/2015 5:00:46 PM	21089
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.049	mg/Kg	1	9/2/2015 5:00:46 PM	21089
Toluene	ND	0.049	mg/Kg	1	9/2/2015 5:00:46 PM	21089
Ethylbenzene	ND	0.049	mg/Kg	1	9/2/2015 5:00:46 PM	21089
Xylenes, Total	ND	0.098	mg/Kg	1	9/2/2015 5:00:46 PM	21089
Surr: 4-Bromofluorobenzene	106	80-120	%REC	1	9/2/2015 5:00:46 PM	21089

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Ar
	D	Sample Diluted Due to Matrix	Е	Va
	Н	Holding times for preparation or analysis exceeded	J	Ar
	ND	Not Detected at the Reporting Limit	Р	Sa
	R	RPD outside accepted recovery limits	RL	Re

- S % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 4 of 14
- P Sample pH Not In Range
- RL Reporting Detection Limit

Analytical Report

Lab Order 1509012

Date Reported: 9/4/2015

Hall Environmental Analysis Laboratory, Inc.

 CLIENT: Animas Environmental
 Client Sample ID: SC-5

 Project:
 COPC SJ 30-6 CTB3

 Lab ID:
 1509012-005

 Matrix:
 SOIL

 Result
 RL Qual Units

 DF Date Analyzed
 Batch

RGANIC	S			Analyst:	том
ND	9.9	mg/Kg	1	9/2/2015 11:05:01 PM	21068
100	57.9-140	%REC	1	9/2/2015 11:05:01 PM	21068
				Analyst:	NSB
ND	4.7	mg/Kg	1	9/3/2015 12:35:59 AM	21089
89.9	75.4-113	%REC	1	9/3/2015 12:35:59 AM	21089
				Analyst:	NSB
ND	0.047	mg/Kg	1	9/3/2015 12:35:59 AM	21089
ND	0.047	mg/Kg	1	9/3/2015 12:35:59 AM	21089
ND	0.047	mg/Kg	1	9/3/2015 12:35:59 AM	21089
ND	0.094	mg/Kg	1	9/3/2015 12:35:59 AM	21089
104	80-120	%REC	1	9/3/2015 12:35:59 AM	21089
	ND 100 ND 89.9 ND ND ND ND	100 57.9-140 ND 4.7 89.9 75.4-113 ND 0.047 ND 0.047	ND 9.9 mg/Kg 100 57.9-140 %REC ND 4.7 mg/Kg 89.9 75.4-113 %REC ND 0.047 mg/Kg ND 0.094 mg/Kg	ND 9.9 mg/Kg 1 100 57.9-140 %REC 1 ND 4.7 mg/Kg 1 ND 4.7 mg/Kg 1 89.9 75.4-113 %REC 1 ND 0.047 mg/Kg 1 ND 0.047 mg/Kg 1 ND 0.047 mg/Kg 1 ND 0.047 mg/Kg 1 ND 0.094 mg/Kg 1	ND 9.9 mg/Kg 1 9/2/2015 11:05:01 PM 100 57.9-140 %REC 1 9/2/2015 11:05:01 PM ND 4.7 mg/Kg 1 9/2/2015 12:35:59 AM 89.9 75.4-113 %REC 1 9/3/2015 12:35:59 AM ND 0.047 mg/Kg 1 9/3/2015 12:35:59 AM ND 0.094 mg/Kg 1 9/3/2015 12:35:59 AM

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 5 of 14
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report Lab Order 1509012 Date Reported: 9/4/2015

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: SC-6 CLIENT: Animas Environmental Project: COPC SJ 30-6 CTB3 Collection Date: 8/27/2015 4:30:00 PM Received Date: 9/1/2015 8:05:00 AM Lab ID: 1509012-006 Matrix: SOIL Analyses Result **RL** Oual Units **DF** Date Analyzed Batch

r mary 500		Q.		~		
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANIC	s			Analyst	t: TOM
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	9/2/2015 11:32:42 PM	21068
Surr: DNOP	99.8	57.9-140	%REC	1	9/2/2015 11:32:42 PM	21068
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	9/3/2015 1:01:12 AM	21089
Surr: BFB	86.5	75.4-113	%REC	1	9/3/2015 1:01:12 AM	21089
EPA METHOD 8021B: VOLATILES					Analyst	I: NSB
Benzene	ND	0.048	mg/Kg	1	9/3/2015 1:01:12 AM	21089
Toluene	ND	0.048	mg/Kg	1	9/3/2015 1:01:12 AM	21089
Ethylbenzene	ND	0.048	mg/Kg	1	9/3/2015 1:01:12 AM	21089
Xylenes, Total	ND	0.097	mg/Kg	1	9/3/2015 1:01:12 AM	21089
Surr: 4-Bromofluorobenzene	100	80-120	%REC	1	9/3/2015 1:01:12 AM	21089

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*

- Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Η Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- % Recovery outside of range due to dilution or matrix S
- Analyte detected in the associated Method Blank В
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 6 of 14 J
- P Sample pH Not In Range
- RL Reporting Detection Limit

Analytical Report Lab Order 1509012

Date Reported: 9/4/2015

Hall Environmental Analysis Laboratory, Inc.

 CLIENT: Animas Environmental
 Client Sample ID: SC-7

 Project:
 COPC SJ 30-6 CTB3

 Lab ID:
 1509012-007

 Matrix:
 SOIL

 Result
 RL Qual Units

 DF Date Analyzed
 Batch

EPA METHOD 8015M/D: DIESEL RAN	IGE ORGANIC	S			Analyst	: TOM
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	9/3/2015 12:00:27 AM	21068
Surr: DNOP	105	57.9-140	%REC	1	9/3/2015 12:00:27 AM	21068
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	9/3/2015 1:26:35 AM	21089
Surr: BFB	88.1	75.4-113	%REC	1	9/3/2015 1:26:35 AM	21089
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.048	mg/Kg	1	9/3/2015 1:26:35 AM	21089
Toluene	ND	0.048	mg/Kg	1	9/3/2015 1:26:35 AM	21089
Ethylbenzene	ND	0.048	mg/Kg	1	9/3/2015 1:26:35 AM	21089
Xylenes, Total	ND	0.097	mg/Kg	1	9/3/2015 1:26:35 AM	21089
Surr: 4-Bromofluorobenzene	101	80-120	%REC	1	9/3/2015 1:26:35 AM	21089

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 7 of 14
ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix		
	н	 H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit R RPD outside accepted recovery limits 	DSample Diluted Due to MatrixEHHolding times for preparation or analysis exceededJNDNot Detected at the Reporting LimitPRRPD outside accepted recovery limitsRL

Analytical Report Lab Order 1509012

9/3/2015 1:51:59 AM

9/3/2015 1:51:59 AM

9/3/2015 1:51:59 AM

21089

21089

21089

Date Reported: 9/4/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental			Client Sampl	le ID: SC	2-8					
Project: COPC SJ 30-6 CTB3	Collection Date: 8/27/2015 4:45:00 PM									
Lab ID: 1509012-008	Matrix:	SOIL	Received	Date: 9/1	1/2015 8:05:00 AM					
Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch				
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANIC	s			Analys	том				
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	9/3/2015 12:28:06 AM	21068				
Surr: DNOP	102	57.9-140	%REC	1	9/3/2015 12:28:06 AM	21068				
EPA METHOD 8015D: GASOLINE RA	ANGE				Analyst	NSB				
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	9/3/2015 1:51:59 AM	21089				
Surr: BFB	88.2	75.4-113	%REC	1	9/3/2015 1:51:59 AM	21089				
EPA METHOD 8021B: VOLATILES					Analyst	NSB				
Benzene	ND	0.049	mg/Kg	1	9/3/2015 1:51:59 AM	21089				
Toluene	ND	0.049	mg/Kg	1	9/3/2015 1:51:59 AM	21089				

0.049

0.097

80-120

mg/Kg

mg/Kg

%REC

1

1

1

ND

ND

101

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*

Ethylbenzene

Xylenes, Total

Surr: 4-Bromofluorobenzene

- Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded H
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank В
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 8 of 14 J
- Р Sample pH Not In Range
- RL **Reporting Detection Limit**

Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order 1509012 Date Reported: 9/4/2015

Batch

CLIENT: Animas Environmental **Client Sample ID: SC-9** COPC SJ 30-6 CTB3 Collection Date: 8/27/2015 4:15:00 PM **Project:** Lab ID: 1509012-009 Matrix: SOIL Received Date: 9/1/2015 8:05:00 AM Result **RL** Qual Units **DF** Date Analyzed Analyses

						and the second sec
EPA METHOD 8015M/D: DIESEL RANGE	ORGANIC	S		1.1.1	Analyst	JME
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	9/3/2015 1:34:03 PM	21083
Surr: DNOP	101	57.9-140	%REC	1	9/3/2015 1:34:03 PM	21083
EPA METHOD 8015D: GASOLINE RANGE	Ξ.				Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	9/3/2015 2:17:20 AM	21089
Surr: BFB	89.2	75.4-113	%REC	1	9/3/2015 2:17:20 AM	21089
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.046	mg/Kg	1	9/3/2015 2:17:20 AM	21089
Toluene	ND	0.046	mg/Kg	1	9/3/2015 2:17:20 AM	21089
Ethylbenzene	ND	0.046	mg/Kg	1	9/3/2015 2:17:20 AM	21089
Xylenes, Total	ND	0.092	mg/Kg	1	9/3/2015 2:17:20 AM	21089
Surr: 4-Bromofluorobenzene	103	80-120	%REC	1	9/3/2015 2:17:20 AM	21089

	Value average Maximum Contaminant Leval	D	Analyte detected in the associated Method Blank
657			
D	Sample Diluted Due to Matrix		Value above quantitation range
Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 9 of 14
ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix		
	ND	ND Not Detected at the Reporting Limit R RPD outside accepted recovery limits	DSample Diluted Due to MatrixEHHolding times for preparation or analysis exceededJNDNot Detected at the Reporting LimitPRRPD outside accepted recovery limitsRL

QC SUMMARY REPORT

Hall En	vironmenta	l Analy	ysis I	Laborat	ory, Inc.					WO#:	150901 04-Sep-1
Client: Project:		nvironmer 30-6 CTB									
Sample ID	MB-21068	SampT	ype: MI	BLK	Tes	tCode: E	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID:	PBS	Batch	ID: 21	068	f	RunNo: 2	28606				
Prep Date:	8/31/2015	Analysis D	ate: 9	/2/2015	:	SeqNo: 8	866078	Units: mg/l	۲g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
	Drganics (DRO)	ND 9.8	10	Letter and realized		97.7		140			
Sample ID	LCS-21068	SampT	ype: LC	s	Tes	tCode: E	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID:	LCSS	Batch	ID: 21	068	F	RunNo: 2	28606				
Prep Date:	8/31/2015	Analysis D	ate: 9	/2/2015	\$	SeqNo: 8	366079	Units: mg/h	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
iesel Range C	Drganics (DRO)	43	10	50.00	0	85.6	57.4	139			
Surr: DNOP	1	5.3		5.000		106	57.9	140	1.		
Sample ID	MB-21083	SampT	ype: MI	BLK	Tes	tCode: E	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID:	PBS	Batch	ID: 21	083	F	RunNo: 2	28637				
Prep Date:	9/1/2015	Analysis D	ate: 9/	/3/2015	5	SeqNo: 8	867224	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
	Drganics (DRO)	ND	10			George Street W					
Surr: DNOP		11		10.00		108	57.9	140			
Sample ID	LCS-21083	SampT	ype: LC	s	Tes	tCode: E	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID:	LCSS	Batch	ID: 21	083	F	RunNo: 2	28637				
Prep Date:	9/1/2015	Analysis D	ate: 9/	/3/2015	5	SeqNo: 8	67225	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
iesel Range C	Drganics (DRO)	52	10	50.00	0	104	57.4	139			
Surr: DNOP		5.0		5.000		99.8	57.9	140			
Sample ID	1509012-009AMS	SampT	ype: MS	S	Tes	tCode: E	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID:	SC-9	Batch	ID: 21	083	F	RunNo: 2	8637				
Prep Date:	9/1/2015	Analysis Da	ate: 9/	3/2015	5	SeqNo: 8	67228	Units: mg/k	۲g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
	Organics (DRO)	49	9.8	49.16	0	100	42.3	146	CONTRACTOR OF THE		
Surr: DNOP		5.0		4.916		102	57.9	140			
Sample ID	1509012-009AMSD	SampTy	ype: MS	SD	Tes	tCode: E	PA Method	8015M/D: Di	esel Range	e Organics	1
Client ID:	SC-9	Batch	ID: 21	083	F	RunNo: 2	8637				
Prep Date:	9/1/2015	Analysis Da	ate: 9/	3/2015	S	SeqNo: 8	67229	Units: mg/k	٢g		
A CONTRACT OF CONTRACT OF CONTRACT											

Value exceeds Maximum Contaminant Level. *

D Sample Diluted Due to Matrix

- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

- S % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank В
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit

WO#: 1509012

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QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

WO#: 1509012 04-Sep-15

Client: Animas Environmental Project: COPC SJ 30-6 CTB3

Sample ID 1509012-009AMSD	SampTy	pe: MS	SD	Tes	Code: El	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID: SC-9	Batch I	D: 21	083	R	tunNo: 2	8637				
Prep Date: 9/1/2015	Analysis Da	te: 9/	3/2015	S	eqNo: 8	67229	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	52	10	50.05	0	104	42.3	146	4.98	28.9	
Surr: DNOP	5.1		5.005		102	57.9	140	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit

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QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: Project:		Environmen 30-6 CTB	000000								
Sample ID	MB-21086	SampTy	pe: M	BLK	Tes	tCode: E	PA Method	8015D: Gase	oline Rang	16	
Client ID:	PBS	Batch	ID: 21	086	F	RunNo: 2	8617				
Prep Date:	9/1/2015	Analysis Da	ate: 9	2/2015	S	SeqNo: 8	66257	Units: %RE	C		
Analyte	1 Provide	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	and the second	840	_	1000		84.1	75.4	113			
Sample ID	LCS-21086	SampTy	pe: LC	s	Tes	tCode: E	PA Method	8015D: Gase	oline Rang	9	
Client ID:	LCSS	Batch	ID: 21	086	F	RunNo: 2	8617				
Prep Date:	9/1/2015	Analysis Da	ate: 9	2/2015	5	SeqNo: 8	66258	Units: %RE	C		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB		930		1000		93.0	75.4	113			
Sample ID	MB-21089	SampTy	pe: M	BLK	Tes	tCode: E	PA Method	8015D: Gase	oline Rang	e	
Client ID:	PBS	Batch	ID: 21	089	F	RunNo: 2	8617				
Prep Date:	9/1/2015	Analysis Da	ate: 9	2/2015	5	SeqNo: 8	66273	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang Surr: BFB	e Organics (GRO)	ND 880	5.0	1000		87.6	75.4	113			
Sample ID	LCS-21089	SampTy	pe: LC	s	Tes	tCode: E	PA Method	8015D: Gase	oline Rang	e	
Client ID:	LCSS	Batch	ID: 21	089	F	RunNo: 2	8617				
Prep Date:	9/1/2015	Analysis Da	ite: 9/	2/2015	S	SeqNo: 8	66274	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	e Organics (GRO)	24	5.0	25.00	0	94.8	79.6	122			
Surr: BFB	Sec. Sec.	970		1000		97.2	75.4	113			
Sample ID	1509012-002AMS	SampTy	pe: M	8	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	e	
Client ID:	SC-2	Batch	ID: 21	089	F	RunNo: 2	8617				
Prep Date:	9/1/2015	Analysis Da	ite: 9/	2/2015	5	SeqNo: 8	66277	Units: mg/H	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	e Organics (GRO)	27	4.9	24.56	0	108	62.5	151			
Surr: BFB	Section 19	960		982.3		97.5	75.4	113			
Sample ID	1509012-002AMSI	SampTy	pe: Ms	SD	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e	
Client ID:	SC-2	Batch	ID: 21	089	F	RunNo: 2	8617				
Prep Date:	9/1/2015	Analysis Da	ite: 9/	2/2015	5	SeqNo: 8	66278	Units: mg/h	٢g		
Analyte	and the second	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	e Organics (GRO)	30	4.9	24.58	0	121	62.5	151	11.4	22.1	

Qualifiers:

Surr: BFB

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

1200

983.3

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank

75.4

113

0

E Value above quantitation range

118

- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit

WO#: 1509012

04-Sep-15

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0

S

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

WO#:	1509012

04-Sep-15

Client: Project:		Environme 30-6 CTI									
Sample ID	MB-21086	Samp1	Гуре: М	BLK	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID:	PBS	Batch	h ID: 21	086	F	RunNo: 2	28617				
Prep Date:	9/1/2015	Analysis D	Date: 9	/2/2015		SeqNo: 8	366291	Units: %RE	C		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
	ofluorobenzene	0.97	FUEL	1.000	SFR Rei Val	97.3	80	120	ARED	RF DEIMR	Quai
Sample ID	LCS-21086	SampT	Type: LO	cs	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID:	LCSS	Batch	h ID: 21	086	F	RunNo:	28617				
Prep Date:	9/1/2015	Analysis D	Date: 9	/2/2015	5	SeqNo: 8	366292	Units: %RE	C		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromo	ofluorobenzene	1.0		1.000		104	80	120			
Sample ID	MB-21089	SampT	Гуре: М	BLK	Tes						
Client ID:	PBS	Batch ID: 21089			F	RunNo: 2	28617				
Prep Date:	9/1/2015	Analysis E	Date: 9	/2/2015	\$	SeqNo: 8	366297	Units: mg/l	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		ND	0.050								
Foluene		ND	0.050								
Ethylbenzene		ND	0.050								
(ylenes, Total		ND	0.10								
Surr: 4-Bromo	ofluorobenzene	1.0		1.000		103	80	120			
Sample ID	LCS-21089	SampT	Type: LO	cs	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID:	LCSS	Batch	h ID: 21	089	F	RunNo: 2	28617				
Prep Date:	9/1/2015	Analysis D	Date: 9	/2/2015	\$	SeqNo: 8	366298	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.92	0.050	1.000	0	92.1	80	120			
Toluene		0.92	0.050	1.000	0	92.4	80	120			
Ethylbenzene		0.96	0.050	1.000	0	95.8	80	120			
Vilenes, Total		2.9	0.10	3.000	0	96.1	80	120			
Surr: 4-Bromo	ofluorobenzene	1.1		1.000	100	111	80	120			
Sample ID	1509012-001AMS	SampT	Type: M	S	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID:	SC-1	Batch	h ID: 21	089	F	RunNo: 2	28617				
Prep Date:	9/1/2015	Analysis D	Date: 9	/2/2015	5	SeqNo: 8	366300	Units: mg/H	٢g		
Analyte		Result	PQL		SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.93	0.048	0.9662	0.01401	94.7	69.6	136			
Toluene		0.96	0.048	0.9662	0.01871	97.9	76.2	134			
Ethylbenzene		1.0	0.048	0.9662	0	104	75.8	137			
(ylenes, Total		3.0	0.097	2.899	0.04764	101	78.9	133			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
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- P Sample pH Not In Range
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmenta	l Analysis	Laboratory,	Inc.
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Client: Project:		20-6 CTE												
Sample ID	1509012-001AMS	Samp1	Type: M	S	TestCode: EPA Method 8021B: Volatiles									
Client ID:	SC-1	Batch	h ID: 21	089	F	RunNo: 2	8617							
Prep Date:	9/1/2015	Analysis Date: 9/2/2015			5	SeqNo: 8	66300	Units: mg/h	۲g					
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Surr: 4-Bromo	ofluorobenzene	1.0		0.9662		105	80	120						
Sample ID	1509012-001AMS	Samp1	Type: M	SD	Tes	tCode: E	PA Method	8021B: Vola	tiles					
Client ID:	SC-1	Batch	h ID: 21	089 RunNo: 28617										
Prep Date:	9/1/2015	Analysis D	Date: 9/	/2/2015	S	SeqNo: 8	66301	Units: mg/h	٢g					
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Benzene		0.98	0.048	0.9653	0.01401	100	69.6	136	5.61	20				
Toluene		1.0	0.048	0.9653	0.01871	103	76.2	134	4.85	20				
		1.0	0.048	0.9653	0	109	75.8	137	4.50	20				
Ethylbenzene														
Ethylbenzene Kylenes, Total		3.2	0.097	2.896	0.04764	108	78.9	133	6.06	20				

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit

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04-Sep-15

WO#: 1509012

ENVIRONMENTAL ANALYSIS LABORATORY IEL: 505-345-	entat Analysis Lobor 4901 Hawku Albiquerque, NM 8 3975 FAX: 505-345- w.hallenviconmenta	18 NE 17109 Sam	Sample Log-In Check List								
Client Name: Animas Environmental Work Order Nur	nber: 1509012		RcptNo: 1	lo: 1							
Received by/date: LM 09/01/15											
Logged By: Celina Sessa 9/1/2015 8:05:00 /	AM	Celin S	non								
Completed By: Celina Sessa 9/1/2015 10:38:45	AM	Celin S	nnen								
Reviewed By: A OF BILL	5	A REAL PROPERTY OF									
Chain of Custody											
1. Custody seals intact on sample bottles?	Yes	No 🗆	Not Present								
2. Is Chain of Custody complete?	Yes 🗹	No 🗆	Not Present								
3. How was the sample delivered?	Courier										
Log In											
4. Was an attempt made to cool the samples?	Yes 🗹	No 🗌	NA 🗆								
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes 🔽	No									
6. Sample(s) in proper container(s)?	Yes 🗹	No 🗆									
7. Sufficient sample volume for indicated test(s)?	Yes 🖌	No 🗆									
8. Are samples (except VOA and ONG) properly preserved?	Yes 🔽	No L									
9. Was preservative added to bottles?	Yes	No 🗹	NA 🗌								
10. VOA vials have zero headspace?	Yes 🗆	No 🗆	No VOA Viais 🗹								
11. Were any sample containers received broken?	Yes	No 🗹	# of preserved bottles checked								
12. Does paperwork match bottle labels?	Yes M	No 🗆	for pH:								
(Note discrepancies on chain of custody)			(<2 or >12 Adjusted?	unless note							
3. Are matrices correctly identified on Chain of Custody?	Yes V	No 🗌	riojusiour								
4. Is it clear what analyses were requested?	Yes M	No	Checked by:								
15. Were all holding times able to be met? (If no, notify customer for authorization.)	165 (1)			2 <u>1</u> 74							
pecial Handling (if applicable)											
16. Was client notified of all discrepancies with this order?	Yes 🗌	No 🗆	NA M								
Person Notified: Dat	te										
By Whom: Via	eMail	Phone 🗌 Fax	[] In Person								
Regarding:											
Client Instructions:											
17. Additional remarks:											
18. <u>Cooler Information</u>	L europe L	Olared D.									
Cooler No Temp *C Condition Seal Intact Seal No 1 2.5 Good Yes	Seal Date	Signed By									

Page 1 of 1

	Client: Animas Environmental Services			Turn-Around Time:						н	A	LL	E	NV	IF	20	NP	1EI	NT	AL	
Client:	mimas	5 Enviro	nmental Services	E Standard						A	N	AL	YS	SIS	5 L	AL	BO	RA	TC	R	Y
	1.1			Project Name		-7	www.hallenvironmental.com														
Mailing	Address	:604 W	v. Piñon St.	COPC S	Ј 30-Ь	CTB 5	4901 Hawkins NE - Albuquerque, NM 87109														
-			87401	Project #:				Те	1. 50	5-34	5-39	975	F	ax	505-	345	-4107	7	34		
Phone #	Phone #: 505-564 -228 !								A	naly	sis	Req	uest	t							
email or Fax#: eskyles & animasenvironmental.c QA/QC Package: Standard D Level 4 (Full Validation)				ger: Skyles		TMB's (8021)	(Gas only)	SO THE OF			(SMIS)		PO4,SO4)	PCB's							
	Accreditation			Sampler: 5		K	WB	HdT	0	=	(1)	202		NO2	8082						E
	NELAP Other		r	On Ice:	7 Yes	D No	+	+	S.	418.	504.1)	r 82	s	103	1 56		(YO				D.
C EDD	(Type)			Sample Tem	berature: 7,(p-0,1CF=2.5 (2ª	+ MTBE	B	por	por	10 0	letal	CI'N	icide	(Y	>-!u				S
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	0-0,105=25 (HEAL NO. (509012	BTEX + M	BTEX + M	TPH 8015B (GRO / DRO	TPH (Method 418.1)	EDB (Method	PAH's (8310 or 8270	RCRA 8 Metals	Anions (F,CI,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)				Air Bubbles (Y or N)
27/15	15:30	Soil	SC-1	1-402.	cool	-001	X		X												
17/15	15:38	Stil	SC-2	1-402	1001	-002	X		X												
27/15	16:20	Soil	SC-3	1-402	6001	-003	X		X												
127/15	16:00	Soil	SC-4	1-402	C00/	-004	X		X												
:127/15	16:08	502	SC-5	1-402	600/	-005	X		X												
127/15	16:30	SOL	SC-6	1-402	6001	-006	X		X												
127/15	1639	Soil	SC-7	1-402	6001	-007	X		X												
127/5	1645	Stil	SC-8	1-402	6001	-008	X		X												
127/15	1615	Soil	80-9	1-402	000	-009	¥		X												
		-																			
							-						_						\rightarrow	_	+
Date:	Time:	Relinquish	ad hy:	Received by:		Date Time	Per	norte					-			Put	ILL.E	~			
131/15 Date:	1418 Time:	Relinguish	LSIL	Received by	re Wall	5 8/31/15 1418 Date Time	W	D #	10	381	02	D	Cor						Rand	la11	Smith
131/15	1845	Sha	ustre Walter	V A	R DC	10115 0805	AR	ea s	wper	eviso	R:]	AIKE	-	RPH	IT	On		lby:L	isa-	Hun	

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.